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# Alexandra Coso Strong

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## CURRENT POSITION

**Assistant Professor, School of Universal Computing, Construction, and Engineering Education**  
Florida International University, Miami, FL, August 2018 – Present

## EDUCATION

**Ph.D. in Aerospace Engineering** Georgia Institute of Technology, Atlanta, GA, May 2014  
**Dissertation:** Preparing Students to Incorporate Stakeholder Requirements in Aerospace Vehicle Design  
Advisor: Dr. Amy Pritchett

**M.S. in Systems Engineering** University of Virginia, Charlottesville, VA, August 2010  
**Thesis:** Measuring Undergraduate Engineering Students' Interdisciplinary Understanding  
Advisor: Dr. R. Reid Bailey

**B.S. in Aerospace Engineering** Massachusetts Institute of Technology, Cambridge, MA, June 2007  
**Concentration:** Information Technology

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## PROFESSIONAL AND RESEARCH EXPERIENCES

**Assistant Professor of Systems Design and Engineering**  
Franklin W. Olin College of Engineering, Needham, MA, August 2015 – August 2018

**Postdoctoral Scholar**, Center for the Enhancement of Teaching and Learning,  
Georgia Institute of Technology, May 2014 – July 2015

**Graduate Research Assistant and NSF Graduate Research Fellow**, Cognitive Engineering Center  
Georgia Institute of Technology, School of Aerospace Engineering, July 2010 – May 2014

**Interviewer**, Engineering Education Pioneers Project  
University of Washington, Seattle, WA, Summer 2011 & Spring 2014

**Graduate Researcher**, Mapping the Field: A Taxonomy for the Field of Engineering Education  
University of Michigan, Summer 2013

**NSF Engineering Innovation Fellow**  
Boeing Commercial, Everett, WA, June 2012 – August 2012

**Graduate Research Assistant**, Technology Leaders Program  
University of Virginia, Department of Systems & Information Engineering, August 2008 – July 2010

**Graduate Research Assistant**, UVa National Library of Medicine Grant Training Program  
University of Virginia, Department of Systems & Information Engineering, June 2008 – August 2008

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## RESEARCH FUNDING

- **Collaborative Conference: Research on Engineering Practice: Catalyzing a Scholarly Community.** National Science Foundation. (#EEC: 1832966), Lead PI: Brunhaver, S., Co-PIs: Coso Strong, A., Jesiek, B., and Korte, R. June 2018 – May 2020. Budget: \$3,700.
- **Collaborative HSI Conference: Co-designing an engineering education research agenda.** National Science Foundation: Dear Colleagues Letter. (#DUE-1764249) Lead PI: Kendall, M. Co-PIs: Coso Strong, A., and Basalo, I. January – December 2018. Budget: \$11,340
- **Collaborative Research: Supporting Agency among Early Career Engineering Education Faculty in Diverse Institutional Contexts.** National Science Foundation: Research on the Formation

of Engineers. (#EEC-1664008) Lead PI: Coso Strong, A. Co-PIs: Bodnar, C., Faber, C., Smith-Orr, C., McCave, E., and Lee, W., June 2017-2020. Budget: \$111,538

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## HONORS AND AWARDS

- Apprentice Faculty Grant, Educational Research & Methods Division, American Society for Engineering Education, 2015
  - Professional and Organizational Development Network Committee on Graduate and Professional Student Development's Award, 2014
  - Student Division Exceptional Service Award, American Society for Engineering Education, 2014
  - Finalist, "Preparing Students for their Career Pathway," NSF Innovation in Graduate Education Challenge (Co-Author: Scottie-Beth Fleming), Summer 2013
  - National Science Foundation Engineering Innovation Fellow, 2012
  - National Science Foundation Graduate Research Fellow, 2010-2014
  - Louis T. Radar Graduate Service Award, University of Virginia, Department of Systems and Information Engineering, May 2010
  - James Means Memorial Award for Excellence in Space Systems Engineering, MIT, Department of Aeronautics and Astronautics, May 2007
  - Senior Legacy Award for significant lasting contributions to the MIT Greek Community, MIT Student Life, May 2007
  - Outstanding Associate Advisor of the Year Award, MIT Academic Resource Center, May 2005
  - Lucent Global Science Scholar, July 2003
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## PUBLICATIONS

### REFEREED JOURNAL PUBLICATIONS

1. [UNDER REVIEW] **Coso Strong, A.** and Sekayi, D. (2018). "Exercising professional autonomy: Doctoral students' preparation for academic careers." *Studies in Graduate and Postdoctoral Education*.
2. **Coso, A.** and Pritchett, A. (2015) "The Role of Design Teams in the Integration of Stakeholder Considerations." *Journal of Aircraft*. Vol. 52 (4), pp. 1136-1145.
3. Rowan-Kenyon, H., **Coso, A.**, Swan, A., Bailey, R., and Creager, M.F. (2012) "The Role of Gender in Student Perceptions of Leadership on Interdisciplinary Engineering Teams." *Journal of Women and Minorities in Science and Engineering*. Vol. 18 (2)

### PEER-REVIEWED CONFERENCE PAPERS & PRESENTATIONS

1. **Coso Strong, A.**, Smith-Orr, C., Bodnar, C., Lee, W., Faber, C., and McCave, E., "Developing a Critical Incident-Centered Transition Theory Framework to Explore Engineering Education Research Faculty Transitions." American Society for Engineering Education: Proceedings of the 2018 ASEE Annual Conference and Exposition. Salt Lake City, UT.
2. Sarang-Sieminski, A., Michalka, S., **Coso Strong, A.**, and Woodard, J. (2018) "Winning Day One: Setting Up Capstone Students for Success." Proceedings of the 2018 Capstone Design Conference. Rochester, NY
3. Cieminski, M. and **Coso Strong, A.** (2017). "An Exploratory Study of Power Dynamics and Feedback in Design Reviews." American Society for Engineering Education: Proceedings of the 2017 ASEE Annual Conference and Exposition. Columbus, OH.
4. Meyer, S. and **Coso Strong, A.** (2017). "Iterating on Students' Perceptions of Iteration in the Design Process: An Exploratory Study." American Society for Engineering Education: Proceedings of the 2017 ASEE Annual Conference and Exposition. Columbus, OH.

5. Stockman, T., Kincaid, C., Heale, T., Meyer, S., and **Coso Strong, A.** (2017). "Preparing Students for a Collaborative Engineering Design Work Environment: A Study of Practicing Engineers." American Society for Engineering Education: Proceedings of the 2017 ASEE Annual Conference and Exposition. Columbus, OH.
6. Faber, C., Smith-Orr, C., Bodnar, C., **Coso Strong, A.**, Lee, W., and McCave, E. (2017). "Best Practices for Developing a Virtual Peer Mentoring Community." American Society for Engineering Education: Proceedings of the 2017 ASEE Annual Conference and Exposition. Columbus, OH.
7. Solis, F., **Coso Strong, A.**, Adams, R., Turns, J., and Crismond, D. (2016) "Towards a Scholarship of Integration: Lessons from Four Cases." American Society for Engineering Education: Proceedings of the 2016 ASEE Annual Conference and Exposition. New Orleans, LA.
8. Faber, C., Bodnar, C., **Coso Strong, A.**, Lee, W., McCave, E., and Smith, C. (2016) "Narrating the experiences of first-year faculty in Engineering Education Research community: Developing a qualitative, collaborative research methodology." American Society for Engineering Education: Proceedings of the 2016 ASEE Annual Conference and Exposition. New Orleans, LA.
9. **Coso Strong, A.**, Chua, M., and Cutler, S. (2016) "Talking 'faculty development' with engineering educators, then talking 'engineering education' with faculty developers: A collaborative reflection on working across communities." American Society for Engineering Education: Proceedings of the 2016 ASEE Annual Conference and Exposition. New Orleans, LA.
10. **Coso, A.** and Sekayi, D. (2015) "Exploring the Role of Institutional Climate in Preparing Engineering Doctoral Students for Academic Careers." American Society for Engineering Education: Proceedings of the 2015 ASEE Annual Conference and Exposition. Seattle, WA.
11. **Coso, A.**, Watson, M.K., and Llewellyn, D. (2015) "What makes an Undergraduate Course Impactful? An Examination of Students' Perceptions of Instructional Environments." American Society for Engineering Education: Proceedings of the 2015 ASEE Annual Conference and Exposition. Seattle, WA. *\*\*Awarded Best Paper in the New Engineering Educators Division\*\**
12. (Presentation) Sekayi, D. and **Coso, A.** (2015) "Moving in to the Professoriate: A Case Study of a Program for Students Pursuing Faculty Careers at a Research-Focused University." American Educational Research Association Annual Meeting. Chicago, IL.
13. Newstetter, W.C., Le Doux, J.M., Waller, A.A., **Coso, A.**, Koretsky, M.D., and Champagne, A.B. (2014) "Building dispositions towards models and model-based reasoning in engineering education." American Society for Engineering Education/IEEE: Proceedings of the 44th ASEE/IEEE Frontiers in Education Conference. Madrid, Spain
14. Fleming, S.B. and **Coso, A.** (2014) "Viewing an Interdisciplinary Human-Centered Design Course as a Multiteam System: Perspectives on Cooperation and Information Sharing." Proceedings of the 10<sup>th</sup> Design Thinking Research Symposium. West Lafayette, IN.
15. **Coso, A.** and Pritchett, A. (2014) "The Development of a Rubric to Evaluate and Promote Students' Integration of Stakeholder Considerations into the Engineering Design Process." American Society for Engineering Education: Proceedings of the 2014 ASEE Annual Conference and Exposition. Indianapolis, IN
16. Rathore, G., **Coso, A.**, and Carberry, A. (2014) "Engaging ASEE Student Membership through the Creation of a Student-Inclusive ASEE Program." American Society for Engineering Education: Proceedings of the 2014 ASEE Annual Conference and Exposition. Indianapolis, IN
17. **Coso, A.** and Pritchett, A. (2013) "The Integration of Stakeholder Requirements within Aerospace Engineering Design Education." American Society for Engineering Education: Proceedings of the 2013 ASEE Annual Conference and Exposition. Atlanta, GA.
18. Watson, M.K. and **Coso, A.** (2013) "Examining Graduate Students' Philosophies of Education: An Exploratory Study." American Society for Engineering Education: Proceedings of the 2013 ASEE Annual Conference and Exposition. Atlanta, GA.
19. **Coso, A.**, Louis, R., London, J., Ngambeki, I., and Sattler, B. (2012) "Exploring the Reasons for Collaboration and Cooperation among Graduate Student Researchers." American Society for

Engineering Education: Proceedings of the 2012 ASEE Annual Conference and Exposition. San Antonio, TX.

20. Bailey, R., Dugan, J., **Coso, A.**, and McFarland, M. (2012) "ECE/SYS Integration: Early Findings on Graduates from a Multi-year Curriculum focused on Technology Systems Integration." American Society for Engineering Education: Proceedings of the 2012 ASEE Annual Conference and Exposition. San Antonio, TX. **\*\*Awarded Best Paper in the Systems Engineering Division\*\***
21. **Coso, A.** and Bailey, R. (2011) "The Effect of Previous Team Experiences on Students' Perceptions of Interdisciplinary Engineering Problems." American Society for Engineering Education: Proceedings of the 2011 ASEE Annual Conference and Exposition. Vancouver, B.C.
22. Bailey, R., **Coso, A.**, Rowan-Kenyon, H., Cabral, M., Dugan, J., and Creager, M. (2011) "Principles and Strategies for Developing and Implementing an Interdisciplinary Undergraduate Curriculum". American Society for Engineering Education: Proceedings of the 2011 ASEE Annual Conference and Exposition. Vancouver, B.C.
23. Carberry, A., Bumblauskas, D., **Coso, A.**, and Torres-Ayala, A. (2011) "Student Satisfaction with ASEE Activities and its Impact on ASEE Student Membership." American Society for Engineering Education: Proceedings of the 2011 ASEE Annual Conference and Exposition. Vancouver, B.C.
24. Rowan-Kenyon, H., **Coso, A.**, Swan, A., Bailey, R., and Shoffner, M. (2010) "Students' Perceptions of Leadership on Interdisciplinary Engineering Teams." Association for the Study of Higher Education: Proceedings of 2010 ASHE Annual Conference. Indianapolis, IN.
25. **Coso, A.**, Bailey, R., and Minzenmayer, E. (2010) "How to Approach an Interdisciplinary Engineering Problem: Characterizing Undergraduate Engineering Students' Perceptions." American Society for Engineering Education/IEEE: Proceedings of the 40<sup>th</sup> ASEE/IEEE Frontiers in Education Conference. Washington, D.C.
26. **Coso, A.** and Bailey, R. (2010) "Examining Students' Perceptions of Interdisciplinarity Based on Gender and Disciplinary Affiliation." American Society for Engineering Education: Proceedings of the 2010 ASEE Annual Conference and Exposition. Louisville, KY. **\*\*Nominated for Best Paper in the Multidisciplinary Division\*\***
27. Bailey, R., Rowan-Kenyon, H., Swan, A., Shoffner, M., and **Coso, A.** (2010). "Implementing an Interdisciplinary Engineering Program – Recruiting Students, Building Courses, Developing a Community." American Society for Engineering Education: Proceedings of the 2010 ASEE Annual Conference and Exposition. Louisville, KY.

#### **OTHER PAPERS, POSTERS & PRESENTATIONS**

1. Brunhaver, S., Jesiek, B., **Coso Strong, A.**, Korte, R., and Stevens, R. (2018) "Special Session: Research on Engineering Practice: Catalyzing a Scholarly Community" American Society for Engineering Education/IEEE: Proceedings of the ASEE/IEEE Frontiers in Education Conference. San Jose, CA.
2. **Coso Strong, A.**, Lande, M., and Adams, R. (2018) "Special Session: Put me in coach! Developing a design playbook for instructors to help engineering students do design." American Society for Engineering Education/IEEE: Proceedings of the ASEE/IEEE Frontiers in Education Conference. San Jose, CA.
3. McCave, E., Faber, C., Bodnar, C., Lee, W., Smith-Orr, C., and **Coso Strong, A.** (2018) " Collaborative Research: Supporting Agency among Early Career Engineering Education Faculty in Diverse Institutional Contexts American Society for Engineering Education: Proceedings of the 2018 ASEE Annual Conference and Exposition. Salt Lake City, UT.
4. **Coso Strong, A.** & Lynch, C. (2018) "Learning from a Moonshot: What Next for College Summer Reading?" *The New England Journal of Higher Education*. Retrieved from: <http://www.nebhe.org/thejournal/learning-from-a-moonshot-what-next-for-college-summer-reading/>
5. Pritchett, A. & **Coso Strong, A.** (2016) "Integrating Cognitive Engineering into Industry Design Teams" *Journal of Cognitive Engineering and Decision Making*. Vol. 10, No. 2, pp.134-137

6. Chua, M., Cutler, S., and **Coso Strong, A.** (2015) "Using the Engineering Design Process to Reflect on STEM Outreach." Proceedings of the Professional and Organizational Development Network Annual Meeting. San Francisco, CA.
7. Cutler, S., **Coso Strong, A.**, and Chua, M. (2015) "Special Session: Exploring the black box of dissemination: The role of professional and organizational development." Proceedings of Frontiers in Education Conference. El Paso, TX.
8. Sekayi, D. and **Coso, A.** (2014) "Moving toward Professional Self-Authorship: A Case Study of Graduate Students in a Program for Students Pursuing Faculty Careers." Proceedings of the Georgia Educational Research Association Annual Conference. Savannah, GA
9. **Coso, A.** and Pritchett, A. (2014) "Incorporating Stakeholder Considerations in the Aircraft Design Process: A Focus on Aircraft Design Education." Proceedings of AIAA SciTech. National Harbor, MD.
10. **Coso, A.** and Pritchett, A. (2013) "Stakeholder Requirements in the Context of Aerospace Vehicle Systems Design: Implications for Engineering Education and Industry." Proceedings of the 2013 Georgia Tech STEM Education Research Expo. (Poster Only)
11. **Coso, A.**, Fleming, E., and Pritchett, A. (2011) "Characterizing Pilots' Interactions with the Aircraft Collision Avoidance System." Proceedings of the 16<sup>th</sup> International Symposium on Aviation Psychology. Dayton, OH.
12. Quinlan, O., Van Dyk, R., **Coso, A.**, and Bailey, R., (2011) "Improving the Labeling Process of an Argentine Winery by Reducing Time to Shipment." Proceedings of the 2011 IEEE Systems and Information Engineering Design Symposium. Charlottesville, VA.

#### CASE STUDIES

1. Sekayi, D and **Coso Strong, A.** (2017) "The Crooked Pathway to Analytic Induction: A Case Study of Making Mid-Course Corrections in the Data Analysis Process." SAGE Research Methods Cases Part 2. <http://dx.doi.org/10.4135/9781473958296>

#### TECHNICAL REPORTS

1. Pritchett, A., Durso, F., Kim, S.Y., Cleveland, W.P., **Coso, A.**, Fleming, E.S., and Wissink, J.H.A. (2011). *A Review of Pilot-Interaction with TCAS* (Contractor Report, NextGen Flight Deck Human Factors Research) Atlanta: Georgia Institute of Technology.

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#### CURRICULAR INNOVATION FUNDING

- **Olin Research Methods Course Development.** Olin College Integrated Project Fund. Lead PI: Huang, J. PIs: Adler, J., Barrett, D., Hersey, S., Martello, R., and Coso Strong, A., *Summer 2018*
- **Olin-UTEP Partnership for Change: Expanding the Preparation of 21<sup>st</sup> Century Engineers.** U.S. Department of Education. Lead PI: Gonzalez, R., Olin College PIs: Townsend, J. and Coso Strong, A. *August 2013 – August 2018.* (Took over as PI for Olin College in April 2017)
- **Quantitative Engineering Analysis Partner Summer II.** Olin College Summer Curriculum Innovation Funding Program. PIs: Govindasamy, S., Ruvolo, P., Coso Strong, A., Geddes, J., and Christianson, R., *Summer 2017*
- **Advancing Assessment at Olin.** Olin College Summer Curriculum Innovation Funding Program. PIs: Martello, R., Woodard, J., Hersey, S., Canavan, L., Goodwin, J., Mur-Miranda, O., Sarang-Sieminski, A., Pratt, J., Lee, C., and Coso Strong, A. *Summer 2016*
- **Developing New Models of Interdisciplinary Integration.** Olin College Summer Curriculum Innovation Funding Program. PIs: Martello, R., Zastavker, Z., Adams, S., Millner, A., Somerville, M., **Coso Strong, A.**, and Woodard, J., *Summer 2016*

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## TEACHING EXPERIENCES

### Olin College of Engineering

- Co-Instructor, CIE 2017B: Quantitative Engineering Analysis II, F2017
- Faculty Advisor, SCOPE Program, AYs 2015-2018
- Co-Instructor & Developer, ENGR3299: Educational Design Studio, SP2017
- Co-Instructor, ENGR2250: User-Orientated Collaborative Design, SP2016 & SP2017
- Co-Instructor, MTH1111/SCI1111: Modeling and Simulation, F2016
- Co-Instructor, ENGR1200: Design Nature, F2015
- Faculty Lead, Co-curricular: Tinkerers, Superheroes, and Evil Geniuses: Exploring our understanding of practicing engineers, F2015

### Georgia Institute of Technology

- Instructor, AE 1601: Introduction to Aerospace Engineering, SP2015
- Instructor, COE 2001: Statics, F2014
- Instructor, CETL 8715/8719: Mentored Teaching Practicum and Immersion, F2014
- Co-Instructor, CETL 8715/8719: Mentored Teaching Practicum and Immersion, SU2014
- Co-Instructor, AE 1350: Introduction to Aerospace Engineering, SP2014
- Problem-Based Learning Facilitator, AE 1350: Introduction to Aerospace Engineering, F2012

### University of Virginia

- Graduate Teaching Assistant, SYS 4581: Case Studies in Systems Engineering, Apr-June2010
- Leadership Team Member, Technology Leaders Program, Sept-June2010
- Teaching Apprentice, ENGR 1620: Introduction to Engineering, F2009

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## ADVISING

### Olin College of Engineering

Mitch Cieminski	Undergraduate researcher	2016-2017
Tom Heale	Undergraduate researcher	2016-2018
Claire Kincaid	Undergraduate researcher	2016-2017
Steven Meyer	Undergraduate researcher	2016-2018
Elena Meyerson	Undergraduate researcher	2018
Tehya Stockman	Undergraduate researcher	2016-2018

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## TALKS & WORKSHOPS

### Invited Talks

- "Exploring the role of research on engineering practice and work environments in engineering education" For Virginia Tech, Department of Engineering Education, *February 2018*
- "Learning from engineering practice to inform educational design" For Olin College of Engineering's President's Council Dinner, *October 2017*
- "From *in vivo* to *in vitro*: Translating Industry Needs into Undergraduate Learning Experiences." For Purdue University, Department of Engineering Education, *October 2015*

- "Implementing evidence-based practices to support students' development as problem-solvers." For Boise State University, *February 2015*
- "From *in vivo* to *in vitro*: Translating Industry needs into Undergraduate Learning Experiences." For Clemson University's Engineering and Science Education Seminar Series, *November 2014*

### **Conference Workshops**

- "Co-designing a research agenda to amplify engineering education efforts at HSIs." Will be developed with and presented by Kendall, M. and Basalo, I at the ASEE Annual Conference and Exposition, *June 2018*
- "Scrum Project Management for Complex Projects." Will be developed and presented with Sarang-Sieminski, A. at the ASEE Annual Conference and Exposition, *June 2018*
- "GEECS Workshop: Promoting Graduate Student Collaborations." developed and presented with Louis, R. at the ASEE Annual Conference and Exposition, *June 2011*

### **Olin Collaboratory Workshops**

- "Understanding Students" with Lynch, C. for Olin's Summer Institute, *June 2018*
- "Using Design Thinking to Create Engineering Educational Experiences" with Kendall, M. and Fernandez, A. for UT-Rio Grande Valley and UT-San Antonio, *October 2017*
- "Design of Inclusive Learning Environments" with Hanna, R., Sarang-Sieminski, A., Waranyuwat, A. for Olin's Summer Institute, *June 2017*
- "Understanding Students" with Achurra, P. for Olin's Summer Institute, *June 2017*
- "Understanding Applicants" with Somerville, M. for Olin's Office of Admission, *August 2016*
- "Student-Centered Approaches to Developing Advanced Technical Course" with Govindasamy, S. for Olin's Summer Institute: Focus Workshops, *June 2016*
- "Charting your Professional Career" with Spence Adams, S. for Olin's Summer Institute: Focus Workshops, *June 2016*
- "Understanding Students" with Somerville, M. for Olin's Summer Institute, *June 2016*
- "Using Project-Based Learning to Foster Intrinsic Motivation and Student Self-Direction" with Martello, R. and Hersey, S. for Japan's Ministry of Education, Culture, Sports, Science and Technology (MEXT) and the Enhancing Development of Global Entrepreneur (EDGE) Program, *February 2016*
- "Reflections on Current Program." presented with Chachra, D. and Vaughan, M. for a University of Texas, El Paso E-LEAD Program Workshop, *October 2015*

### **Georgia Institute of Technology Workshops & Presentations**

- "Developing Our Students as Problem-Solvers." presented with Benson, L. for a CETL Teaching Enrichment Workshop, *January 2015*
- "The Engineering Thinking Process: Teaching an Approach to Engineering Problem Solving in Core Courses" for Georgia Tech's Graduate Student and Postdoc Innovations in Teaching Brown Bag Conversation, *October 2014*
- "Presenting!" presented with Chua, Z. for Cognitive Engineering Center Lab Meetings, *October 2013 & October 2011*
- "Transitioning from Undergrad to Grad School." presented in a panel for Georgia Tech Women in Engineering Coffee Talk, *March 2013*
- "Research Methods for Engineering Education Research." presented with Margulieux, L. for the Georgia Tech ASEE Student Chapter Monthly Meeting, *December 2012*

## **University of Virginia Presentations**

- “The Art and Science of Reading, Writing, and Presenting.” presented with Vedomske, M. and Thekdi, S. from SYS 7021: Research Methods in Systems Engineering. Systems and Information Engineering Colloquium, *February 2010*
- “Swimming in Questionnaire & Survey Data: How I got from Qualitative Data to a Quantitative Survey & My Next Steps.” SYS 3023: Human Machine Interface, *November 2009*

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## **UNIVERSITY AND DEPARTMENTAL SERVICE**

### Olin College of Engineering

#### **Olin Collaboratory**

- Faculty Lead, Summer Institute: Designing Student-Centered Learning Experiences, *June 2018*
- Co-faculty lead, Summer Institute: Designing Student-Centered Learning Experiences, *June 2017*

#### **Olin Exposition**

- Coordinator, *Spring 2016 - Spring 2017*
- Apprentice Coordinator, *Fall 2015*

#### **Post-Graduate Planning Sessions**

- How to Submit a Strong NSF Application, *October 2015 & September 2016*
- Graduate School Experiences for Grad School 101 Co-Curricular, *September 2015*

#### **Student-Led Courses/Teaching Professional Development for Olin Students**

- Independent Study Advisor for Teaching Assistant from Quantitative Engineering Analysis I and Data Structures & Algorithms course, *Spring 2017*
- Pedagogy Advisor for Mobile Prototyping Course, *Fall 2016*
- Led prototype workshop on “Starting your course on the right foot” for spring student-led course instructors, *December 2016*

#### **Arts, Humanities, and Social Sciences Capstone Advising**

- Caz Nichols, Educational Game Design, *Spring 2018*
- Anne LoVerso, Education History Museum Exhibit Design, *Spring 2017*

### Georgia Institute of Technology

#### **Georgia Tech – American Society for Engineering Education Student Chapter**

- Co-Founder and Vice-President, *September 2011 – April 2012*
- Co-organized an Engineering Education Workshop & an Institute-wide STEM Education Research Expo

#### **Cognitive Engineering Center Graduate Student Orientation, Summer 2011**

- Planned and executed the first orientation for the Cognitive Engineering Center

### University of Virginia

#### **Graduate Student Orientation, Summer 2009**

- Coordinated and executed the first multi-day orientation for the Department of Systems and Information Engineering

#### **Recruitment Supervisor and Advisory Board Member**

Theta Zeta Chapter of Sigma Kappa Sorority, *May 2009 – May 2010*

### Massachusetts Institute of Technology

#### **Undergraduate Advising and Academic Programming Student Advisory Board, 2004 – 2007**

#### **Residence Based Advising Associate Advisor & Seminar Leader, 2004 – 2006**

#### **Vice-President of Membership and Sisterhood Chair**

Theta Lambda Chapter of Sigma Kappa Sorority, *January 2005 – January 2007*

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## ADVISORY BOARD MEMBERSHIP

**Advisory Board Member**, Launch Studio, August 2017 – August 2019

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## PROFESSIONAL SERVICE

### **Educational Research & Methods (ERM) Division, American Society for Engineering Education (ASEE)**

- Director, 2016-2018
- Member of ERM Best Paper Award Committee, 2016
- Reviewer for the Apprentice Faculty Grant Applications, 2016-2018

### **National Science Foundation**

- Panelist, 2018
- Graduate Research Fellowship Program Panelist, 2016

### **Student Division, American Society for Engineering Education (ASEE)**

- Member of the Executive Board in the positions of Immediate Past Chair, Chair, Program Chair, Membership Chair, Co-Editor of Quarterly Newsletter, *June 2009 – June 2014*
- Led the planning and execution of the technical sessions, special sessions, and social activities for the Student Division for the 2012 ASEE Annual Conference and Exposition

### **Graduate Engineering Education Consortium for Students (GEECS)**

- Member of the Leadership Team and 2013 Annual Event Chair, *August 2010 – October 2012*
- Assisted in the planning and execution of the 2012 Graduate Engineering Education Consortium for Students Annual Event in Washington, D.C.

### **Selected to Attend and Contribute to:**

- Clemson University's STEM Faculty Development Collaboratory's How Many Hats Do You Wear?: Building Research Capacity for STEM Faculty Development Workshop, *February 2017*

### **Selected for Committee Membership:**

- ASEE 125<sup>th</sup> Year Committee, 2016 - 2019
- ASEE National Projects Board, 2014 - 2017
- ASEE National Outstanding Teaching Award Committee, 2011 – 2014

### **Peer-Reviewer:**

- International Journal of Doctoral Studies, 2017-2018
- IEEE – Transactions on Education, 2014 - 2016
- Journal of Engineering Education, 2015, 2018
- Advances in Space Research, 2015
- Journal of Cognitive Engineering and Decision Making, 2012-2015
- Advances in Engineering Education, 2014
- IEEE/ERM Frontiers in Education Conference, 2012
- ASEE Annual Conference and Exposition, 2010-2015

### **Session Moderator:**

- HFES Annual Meeting, 2013
- ASEE Annual Conference and Exposition, 2011

### **Professional Society Membership:**

- American Society for Engineering Education, *since 2009*
- Professional and Organizational Development Network, *since 2014*
- American Institute of Aeronautics and Astronautics, 2013-2015